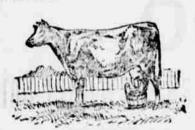
FARM AND GARDEN.

A PATENT MILKER AND A NEW-FANGLED MILK PAIL.

The Hog is a Friend to Man if He is Treated Half Way Decently-Repairing Unierdrains-How Broom Corn is

I are is a patent arrangement for milkinc cows that is sometimes used. It is a in invention. It is not to be used steady thing, however, but for cows will sore teats. The tubes are inserted ly into the tents, and pushed gradthus being open, it will flow down by the simple force of gravity, and stream through the milker into the pail. The squeezing of sores on the cow's teats is



There is a single silver tube, with holes

in the side for the milk to come out, that is sometimes used in cases of inflamed udder. It is gently and gradually forced into the milk passage, and the fluid flows

Warm Shed,

The shed here illustrated is proof against almost any winter's cold, and especially if the opening is towards the south. The dense mass of hay so closely packed on

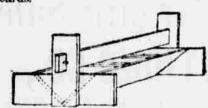


keep out the nor'easters. The front should be provided with a door, and the shed made where the cattle cannot get at it, or they will soon devour the hay or straw used as

a covering and "weather boarding." Skeleton sheds can be made opening into the barn-yard, and these top-covered with corn fodder, with the back and ends treated the same way. If the frame is made strong enough, entire crops of fodder can be stored on the top of the shed, and used as needed. We have, for several seasons, used such a skeleton shed, when we did not have room in barns and out buildings to store the fodder; the fodder kept admirably. - American Agricul-

Pig Trough.

Some man, it does not appear who, has invented the following pattern for an improved pig trough. The sides of the trough are firmly nailed to the end boards.



PEEDING TROUGH FOR PIGS

upright board, which runs lengthwise of the trough, divides it into two best cultivation would not produce a crop parts, and keeps the pigs from getting into of catable roots from wild carrot seed. the trough. Strips, four inches wide, When comparatively scarce in a clover pasnatled to the edges of the trough, divide ture or meadow the wild carrot may be the length into spaces for each pig to feed pulled out by hand after heavy rains. It in, and prevent one pig from crowding is easily seen at a distance by its white the next one. There must always be blossom standing higher than the clover. more spaces provided than there are pigs. But where it has once seeded heavily to feed, in order to avoid fighting among hand pulling is impracticable. The only the animals. These troughs may be made of various lengths, according to the number of pigs to be fed.

Pig Partners.

money out of his hogs is to take them followed too persistently for this it will into partnership. This can be done in a live over winter and perfect its seed the number of ways. At first they will take the sour milk and turn it ipto money in in keeping this seed down carrot seed the most profitable way it can be done. Experiments have shown this. The care is taken that none of its seeds are kitchen slops, which often defile the back | scattered about the farm. door, can also be used by the active partner, and, if strengthened a little with middlings, they will rapidly turn into pig is a partner worth having.

There are lots of things which litter up is a wheelbarrow. It can be loaded both going back with manure for the crops in the garden. Nothing like hog manure Register. out in the lot where it was plowed under for the fod lercorn. The stalks are twice as large as they are where the barnyard manure was put. It is so every time. The pig will turn the plantains, the purslane and the lawn grass to the best account. A friend had a field full of wild morning glories, and they ran the crops out so badly that it hardly paid to cultivate the land. He got a hint from Kirby Homestead, and bought up a lot of shoats, took them as partners and turned them into the field. Every day some shelled corn was scattered about and the bogs ate it and rooted around for more, and so got a taste of the roots of the morning glories, and they kept rooting for them until the field was entirely cleared.

Another bad a large lawn full of livefor-ever, and it defled all cutting, hoeing and salting. The despised pig was turned in and fed just enoug's to keep it keen and smart, and it went to rooting. The door yard did not look very inviting that season, and parsars by wondered at the taste, but the pigs cleared out the livefor-ever so thoroughly that not a vestige remained, and the next spring there was the clean ground to make a smooth and handsome lawn. Pigs will worry thistles awfully in the same way, and all other foul stuff. The land always welcomes their presence, judging by the expression afterward.

Where pigs are kept there will always be good crops. Pigs should be taken as permanent partners, but the location should be changed frequently. Two years is long enough to carry on business in the same place. For this reason portable shelters are a good thing, or it may be so arranged that the shelter shall be stationary, but the feeding place should be all around. -F. D. Cartis in Rural New Yorker

Repairing Underdrains.

It is a fact which experienced ditchers that has never been dug through before. This means, of course, places where the it has no vitality "- Peoria Transcript.

soil is not saturated with water overflowing from the drain itself. This is all the stronger reason why the work should not be neglected. Yet it is an odd job, and at best a disagreeable one. Hence miles of underdraining are allowed to become nearly or quite worthless for lack of the needed attention at the right time. All the materials for the drain, either stone or tile, are ready at hand, and it requires only labor to put them in

When filling in after a break has been repaired there will be strong temptation to use more stone or to place over the drain a covering of straw or other coarse material for the water to filter through The less material is used, excepting earth over the drain, the better its chances for ua / upward. The passage for the milk | durability. Too many stones are frequent cause of failure. They are disturbed by deep frosts, and if the drain itself is loosened some stones are apt to cave in on it. Straw and hay, sometimes used, are even worse. They prevent the earth from being packed closely around the drain. In a year or two they decay and leave a vacant space over the water course, which is only broken down when the soil is thoroughly saturated with water. If soil containing any vegetable matter is packed closely around the stone or tile there need be no fear that water will not find its way off through the drain when the surrounding soil is sufficiently wet.-Amercian Cultivator.

Harvesting Broom Corn. The breaker will walk backward and soize the corn about as high as the waistband of his trousers with the left hand, at the same time seizing it with the right; then with a jerk downward and backward he lays it diagonally across the row. Then the cutter with a knife like a shock knife follows and cuts a handful with a shank to each brush, about six inches long, and lays it on top of the table, whence the haulers gather it ami the sides and top take it to the shed, where a cylinder, set will effectually full of wire teeth and run by horse power, takes the seed off. The latter operation is termed "holding on," and two or three men will girt and straighten the brush for the man who "holds on." will take a handful, and with one knee braced against the cylinder frame will lay the brush on the rapidly revolving cylinder, and with a right and left turu of the wrists will clean the seed off. He then lays the brush in an X shaped box; it is then carried by the shelver and laid on shelves made of poles or laths, where it is allowed todry. Then it is "bulked," or taken off the shelves and put down in a pile for convenience in baling.

Some of the growers in Douglas county Ills., have as high as 300 acres. They run a force of 50 mcn. and no one stands around in the house or out. Last year there were about 18,000 acres of broom corn grown in this county. This year there are about 23,000 acres. Good corn makes about a ton to three acres, and the crop will average that here this year. At \$60 a ton it is equal to an average crop of Indian corn at 30 cents a bushel. Indian corn does well following broom corn, but small grains always make a poor crop.

The Wild Carrot Nuisauce. There is no question that the wild carrot is the degenerate offspring of cultivated carrots, left to seed and grow for years without cultivation. It is all the greater pest for the fact that it will thrive on any kind of land, and will both grow and seed on sod, where, of course, its root has no opportunity to develop. But it has so degenerated that even sure way to get rid of it is to plow and reseed with clover, repeating this process so long as the wild carrot continues to be too abundant to pull. Mowing it down does no good, for it will shoot up The way for the small farmer to make from the stump and perfect its seed. If live over winter and perfect its seed the following season. Owing to the difficulty should not be grown except where great

The following is a statement of the cash. Then come the weeds. I have comparative prices in this country sixty found out what the roost of them grow years ago: A bushel of wheat would buy for-to feed pigs. These that they won't two yards of called, or domestic shirting; eat will make good heanure, and here the now it will buy lifteen or twenty yards of the same grade of goods. A bushel of corn would then buy a pound of nails; the grounds and make them look rough now it will buy ten pounds. A pair of and unkept which the pigs will help to factory blankers would cost a sow in get out of the way. The only vehicle 1820; now the price of a common cow necessary to do the business of the firm | will buy rive pairs of as good quality | A bushel of sait then required twenty dozen ways, taking weeds to the pigsty and of eggs to pay for it; that number of eggs will now buy ten bushels of sall .- Lown

Pruning Grape Vines. Any time after the leaves have fallen vill answer for pruning grape vines. It is probably best to do it in the fail, so that the vines will be thrown down from the treilises. Near the ground they will be covered with snow, and thus protected from injury by severe frost. It is not est in very cold climates to cut back very dosely. The bud next the cut may be frozen, and it is better to leave a longer stub and cut back in the spring after this danger has passed.

Things to Do and to Know. The Ningara is the most popular of the

white grotees. Chickens can be fattened in twelve days to two weeks if they are kept in a partly dark place and fed all they will

Dr. Loring says nothing but a horse should be called a thoroughbred. Cattle of that class, he says, should be called

Two shorthorn bulls, a cow and a helfer have been purchased from the queen's farm at Windsor, and have gone to the

High bred horses should not be worked in the collar, because their shoulders are so sharp-pointed and slanting that the collar will not fit over them.

The Audabon society for the protection of birds from milliners and ladies was formed in New York city in February. It has spread throughout the country and is having success.

The Western farmers have evidently reached a point where nothing short of fire dried corn can be relied upon for seed. Here is a question we would like to have some of the learned writers elucidate. Ten years ago one half the seed was taken from the crib to the planter. To well know that digging down to repair do such a thing now would be to get a ditch is less laborious than moving soil less than half a stand of corn. Is our corn like the Jersey cow, so inbred that

SCIENCE AND PROGRESS.

THE FISH FROM WHICH FERTILIZERS ARE MADE.

Co-operative Farming in England-Interesting Scientific Facts-The Little Mossbunker a Fish Bone of Contention. Every Creature is Ris Enemy.

A red hot dispute is going on between the shore fishermen and the steamer fishermen engaged in the menhaden industry along the New York and New England coast. The menhaden is a fish which is the chief dependence for manure on Long Island and other parts of the north Atlantic coast,

The common name of the menhaden is mossbunker. During the summer months it comes near the coast in great shoals for the purpose of spawning. It is not much of a fish for eating, except early in the spring. But for a fertilizer of the soil, and for furnishing oil, the mossbunker is unexcelled. Everybody's hand is against it. Man makes fish oil of it and commercial fertilizers out of what is left after the oil is pressed out. Other fish eat it by the million. It is a part of the regular diet of the warlike and much prized



MENHADEN OR MOSSBUNKER.

In spite of enemies swarming above the water and below it, the prolific little fish is caught by millions and millions every summer. It is a small tish of the shad family, brownish-green above, white below and upon its shoulder, if a fish can be said to

have a shoulder. The mossbunker fisheries are changing in character of recent years, and hence the trouble between the shore farmers and the steamers. A powerful, snorting little steam tug takes in tow half a dozen or more great miles from land, anchors where there is a shoal of mossbankers and the fleet proceed to fish by wholesale. The "bunkers" are taken by the hundren thousand in purse nets and tumbled into the boats. After several days, when all the scows are full, then the fleet starts home, trailing an odor behind it which "smells to heaven." Factories are built at like a summer cloud, not dark and pointervals along the coast. Here the laden tious, but big with salubrious showers. hoats are towed and their contents converted into oil and fertilizers, and here for a tolerably steady thing there is smelling to heaven the year around. That is the new fashioned way of mossbunker fishing. A relic of the old fashioned way is seen in the illustration:



above them and in their wake. Other fish kill and eat them so constantly that the oil rises from their wounded and dying bodies in quantity sufficient to be plainly visible, and which Cleveland has planted and watered to quantity sufficient to be plainly visible, and make the water smooth and shining. When take root and bear fruit. Should Blaine, or the school was discovered the farmers took to their boats, shot out through the breakers.

Legan, or Sherman come in two years hence of Counselors at Law, Fattern & Metager's Black september of Counselors at Law, Fattern & Metager's Black september of Court House. drew long nets around the fish and scooped it would surely be uprooted. haul of a net sometimes brought a million.

When the first were brought in they were nches long, and one fish is considered equal

within three miles of the shore. After a

Co-operative Farming in England.

A successful although at comporation in forming a reported in England. A company of alth working men, tradesing neutral mechanics. For a happed hands, face and lips, use to it flows, the other mentals in a payor. to London, who were out of employment, Kaleslerma. 25 cents, of E. Y. Griggs. mifed in an assessmation which rented a rundown farm of 15t acres near London. They largely to market gardening and dairying, workmen in some American cities. It is of the telephone comparatively easy to secure land on favorable terms. The difficulty would be that too many unemployed workingmen would try to durk the severe or disagreeable labor inseparadividual attempts often made by discouraged men with small capital. Co-operation when each of the partners is willing to do his For fasther particulars apply to share of the work. -American Cultivator.

Facts of Interest. Geologic surveys indicate that the New England coast is slowly rising.

A chemist recently analyzed a sample of a certain widely advertised "nerve food," and found it to be sweetened water flavored with

From Washington.

[From our Regular Correspondent.]

WASHINGTON, Oct. 80th, 1886.

It is remarkable but true that the Govern. ment offices of the United States, here and elsewhere, with their 130, 00 employes, are going on in their work with industry and the secrets of his profession; that while dreams of enthusiasts. But to make the how to treat all ordinary diseases which surprise more surprising, this reform has are real troubles, quickly and effectually been brought about by the unredeemed and without the use of a dictor. Buy it with irredeemable, too utterly, unspeakably bad the FREE TRADER at \$2 for 544 page book and paper one year. Democrats. Has the tongue of the radical haranguer lost its lubricity? Have the fictions amining an application for a patent on a er. There he is in the l'ensien Office, hard | FIRST NATIONAL BANK at legitimate work under Democratic Commissioner Black, who with a smaller force passed many more pension cases than any Republican commissioner, and paid \$3,000,-000 more in p asions than Republican Dudley, his predecessor. You see him in the Treasury Department, in the Land Office, the Indian Office, the Post Office Department-everywhere hard at work. How tame rainbow hues all over. It has a black spot he looked. He will not hurt you. His ma ign energy is scorche i. There is a restless pent up-ness about him. It seems abnormal to him to be confined to honest work during a political campaign, but he will get used to it; it will not kill him. By and by the open, stupid wows. It steams out along the novel idea that he is paid to work for the coast anywhere from half a mile to five United States, and not for the Republican party, will take root in the worn soil of his moral sense. His inocuous political desuctude will be a blessing to the country. What wonderful changes have taken place

in twenty months! They have overcome us like a summer cloud, not dark and porten-

Twenty months ago the property owners in Washington were despondent. It was predicted that a Democratic President would dismiss all the office holders, that five thousand owners of homes in Washington would have to sell at a loss, and that a fall in real estate would follow. The result has been the reverse of that predicted. Instead of wholesale dismissals, only the idle, the incompetent and the dissipated were cast out. If on hand and for sale, The health, the moral tone and efficiency of the public service were greatly improved. An improvement in real estate and in general business followed as a natural result. The Government employe and his dependants, who compose fully one half the population of Washington, no longer feel that their living depends upon political service, or upon the ins and outs of political parties. He has become a changed man-more respected by others, having more respect for himself. G. w. W. BLAKE, Attorney and Counselfor by others, having more respect for himself. W. W. BLAKE, Attorney and Counselfor by others, having more respect for himself. MENHADEN NET.

A few years ago the farmers along a strip of coast ciuldest together to provide boats and a long fishing a loe. A constant lookout was kept from an elevated place. A school of menhaden may always be detected out at sea by the smooth, shining streak of water astronal capital on the solid ground of astronal capital of solid capital capital of solid capital capital of solid capital capital of solid capital capital of solid capital capital His credit is better, and now, instead of sell-

them in literally by the million. A single hand of a net sometimes brought a million.

I believe that a large majority of office hand of a net sometimes brought a million.

holders here are no longer Republican. When the first were brought in they were loaded into carts holding 1,000 apiece, and handed to the fields and scattered broadcast upon them. A membaden is eight to fourteen and they are compelled to see the every day improvements which the Cabinet officers and A. J. WILLIAMSON. The steam tugs with their tows have broken up largely this profitable fishing, hence have introduced. They are made to do more office over fluid's Dry toods Store. JuniTer the quarret. The farmers are undertaking to work for the Government, but they are no have the teamers required by law not to fish longer required to do dirty and dishonest flow, Other a longer required to do dirty and dishonest within three nules of the shore. After a day's fishing in the old way the nets were work for the Republican party. They are to the net work for the Republican party. They are not harrassed day and night with the reflections Rock, ottaws, iii. to dry. The rest made a perfureque object tion that unless they assist in the reflection in the landscape. One of them as shown in of this member of congress or that senator C. Office in Lynch's block, Maio street, Ottawa, III. they will lose his influence and lose their D. McDOUGALL attaches at Law, Ottawa

town form of 184 acres their London. They paid a comparatively high rental for such and, thirty five shallings per acre, but put so cently tried the experiment of talking with and Male streets from room a case, others, it is consistent and that the enterpress was a much labor on it that the enterprise was a other representatives of the "Celestial king success. The land was enriched and devoted dint. at New York, a distance of 315 miles the latter increasing a the association secured the language of Confuctus, the latter increasing a the association secured to purchase cows. Formerly only back and forth with perfect recklessness of the latter increasing a the association secured to purchase cows. Formerly only back and forth with perfect recklessness. four men were employed on the farm. Now as to the strain upon the wires of this barit gives constant employment to forty, with proportionale increase of profit. This is possibly a suggestive experiment for unemployed the powers of endurance and capabilities H. M. HASCOM, M. D.,

California Execusion.

On Nov. 16th and 17th the Burlington able from any farm operations. Still, if there Rouse (G., B. & Q. Ry.) will sell round trip s no shrinkage, these combined attempts at excursion tickets from Ottawa to San Fran arming are more likely to be successful then eight of Los Angelos, Cal., at extremely low rates. Tickets good thirty date going and helps to lessen the burden of lack of money good returning six months from the of safe. GEO, E. ROE, Agt.

A widow in Illinois left a sachel contain

ing thirty live dollars in her carriage. In Berlin the health authorities propose to young man found it and returned it to its establish two great city unik halls, where undoubted pure milk can be got by the poor. This is in the hope of diminishing infant more the best college.

The best college is the poor of the body of the London operancy Medical Association on the best college.

The best college is the body of the London operancy Medical Association on the best college. the best policy.

Miraculous Escape

W. W. Reed, Druggist, of Winchester, Ind. found it to be sweetened water flavored with writer. One of my customers, Mrs. Louisa essences and one or two latter substances. Pike, Bartonia, Randolph Co., Ind., was a long Is has been discovered that the addition of to die by her physician. She heard of Dr. sugar or molasses to mortar increases its powsugar or molasses to mortar increases its power of holding together to an extraordinary degree. It is believed that this is the secret of the month of the month

Imaginary Ilia.

A Philadelphia medical journal reports a cynical doctor of that city as saying that "one-paif of the s-called cases of cardiac disease are dyspepsi, pure and simple; one-half of the cases of maiaria are laziness, and two thirds of the cases of nervous prostration only had temper," and adds that the doctor ought not to "give sway regularity. This state of things is unparal. there is much touth in what the cynic says, leled. It had no existence except in the the truth should so the spoken at all times But "Our Family Physician" will tell you

A burrel of kerosene oil buried ten feet with which he was wont to rally the raral under ground will, it is said, contaminate Republican become threadbare? Why is every well within a quarter of a mile, and this thus? What mean these moss grown stumps, no longer pressed by the number their pernicious influence even a greater nines of frontier Blainites? Where is our distance, although the water which it afonce untamed and rampant for bread and feets may not indicate to the taste the butter Republican oratorical mendacity? presence of any impurity. Whether privy Come with me, reader, and you shall see they can not keep the poisonous gases and him. Here he sits in the Patent Office ex. substances from penetrating the surrounding soil.

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There are three good dwelling houses, two good arms, three good cribs, two granaries and other out-orligings. Fences good, land clean and title perfect, "ently of good water, three orchards and all kines of must truit. Will divide up the land into two or three must truit.

lenty of good water, three or hards and an alloward must trust. Will divide up the hand into two or three cross if purchasers are found for the whole. Owner cares to go to California for his health. Will give mrchasers a decided bargain. For terms, we consult F. LINCOLN, Ottawa, III., or W. A. McCLILLIM, on the farm. P. O. address, Bruceville, La Salle countries of the farm.

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St acres in Deer Park 60 acres in Fall liver. 80 acres in Fall liver. 80 acres in Fall tiver. 100 acres in South Claws. 40 acres in Alen. 50 acres in Earl. 80 acres in Earl.

All well improved farms. Also other farm lands in Larane, Livingston and Ford counties. Come and see me if you mean business and want a begula. B. F. LINCOLN.

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Saturday September 4 Saturday..... October 2

Saturday November 6 At all other times (as this is the only place he professionally) he may be found in Chicag-OFFICE AND DISPENSARY:

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